

Connecting via Winsock to STN  
Welcome to STN International Enter x:x  
\*\*\*\*\* Welcome to STN International \*\*\*\*\*  
\*\*\*\*\* STN Columbus \*\*\*\*\*

FILE 'HOME' ENTERED AT 17:13:29 ON 16 SEP 2003

```
=> file CAPLUS
=> s sodium-calcium exchanger OR sodium-calcium pump
    900437 SODIUM
        33 SODIUMS
    900446 SODIUM
        (SODIUM OR SODIUMS)
    659675 CALCIUM
        31 CALCIUMS
    659678 CALCIUM
        (CALCIUM OR CALCIUMS)
    88349 EXCHANGER
    73788 EXCHANGERS
    120140 EXCHANGER
        (EXCHANGER OR EXCHANGERS)
    701 SODIUM-CALCIUM EXCHANGER
        (SODIUM(W)CALCIUM(W)EXCHANGER)
    900437 SODIUM
        33 SODIUMS
    900446 SODIUM
        (SODIUM OR SODIUMS)
    659675 CALCIUM
        31 CALCIUMS
    659678 CALCIUM
        (CALCIUM OR CALCIUMS)
    98346 PUMP
    32799 PUMPS
    113080 PUMP
        (PUMP OR PUMPS)
    8 SODIUM-CALCIUM PUMP
        (SODIUM(W)CALCIUM(W)PUMP)
L1      709 SODIUM-CALCIUM EXCHANGER OR SODIUM-CALCIUM PUMP
```

```
=> S L1 AND mammalian
    177990 MAMMALIAN
    206 MAMMALIANS
    178138 MAMMALIAN
        (MAMMALIAN OR MAMMALIANS)
L2      77 L1 AND MAMMALIAN
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=> D L2 1-77

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L2      ANSWER 1 OF 77  CAPLUS  COPYRIGHT 2003 ACS on STN
AN      2003:579503  CAPLUS
TI      ***sodium*** / ***calcium***      ***Exchanger***      (NCX1)
        Macromolecular Complex
AU      Schulze, Dan H.; Muqhal, Muqeen; Lederer, W. Jon; Ruknudin, Abdul M.
CS      Medical Biotechnology Center, School of Medicine, Department of
        Microbiology and Immunology, University of Maryland Biotechnology
        Institute, University of Maryland, Baltimore, MD, 21201, USA
SO      Journal of Biological Chemistry (2003), 278(31), 28849-28855
        CODEN: JBCHA3; ISSN: 0021-9258
PB      American Society for Biochemistry and Molecular Biology
DT      Journal
LA      English
RE.CNT  72      THERE ARE 72 CITED REFERENCES AVAILABLE FOR THIS RECORD
        ALL CITATIONS AVAILABLE IN THE RE FORMAT
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L2      ANSWER 2 OF 77  CAPLUS  COPYRIGHT 2003 ACS on STN
AN      2003:212660  CAPLUS
DN      139:115085
TI      Stretch-dependent slow force response in isolated rabbit myocardium is Na+
        dependent
AU      von Lewinski, Dirk; Stumme, Burkhard; Maier, Lars S.; Luers, Claus; Bers,
        Donald M.; Pieske, Burkert
CS      Department of Cardiology and Pneumology, Georg-August-University,
        Gottingen, 37075, Germany
SO      Cardiovascular Research (2003), 57(4), 1052-1061
        CODEN: CVREAU; ISSN: 0008-6363
PB      Elsevier Science B.V.
```

DT Journal  
LA English

RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 3 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2003:128235 CAPLUS  
DN 139:33614  
TI K<sup>+</sup>-dependent Na<sup>+</sup>/Ca<sup>2+</sup> exchangers in the brain  
AU Lytton, Jonathan; Li, Xiao-Fang; Dong, Hui; Kraev, Alexander  
CS Cardiovascular Research Group, Departments of Biochemistry & Molecular  
Biology and Physiology & Biophysics, University of Calgary, Calgary, AB,  
T2N 4N1, Can.  
SO Annals of the New York Academy of Sciences (2002), 976(Cellular and  
Molecular Physiology of Sodium-Calcium Exchange), 382-393  
CODEN: ANYAA9; ISSN: 0077-8923  
PB New York Academy of Sciences  
DT Journal; General Review  
LA English

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 4 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2003:128215 CAPLUS  
DN 138:382279  
TI Potassium-dependent sodium-calcium exchange through the eye of the fly  
AU Webel, R.; Haug-Collet, K.; Pearson, B.; Szerencsei, R. T.; Winkfein, R.  
J.; Schnetkamp, P. P. M.; Colley, N. J.  
CS Department of Ophthalmology & Visual Science, and Department of Genetics,  
University of Wisconsin, Madison, WI, 53792, USA  
SO Annals of the New York Academy of Sciences (2002), 976(Cellular and  
Molecular Physiology of Sodium-Calcium Exchange), 300-314  
CODEN: ANYAA9; ISSN: 0077-8923  
PB New York Academy of Sciences  
DT Journal; General Review  
LA English

RE.CNT 74 THERE ARE 74 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 5 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2003:128196 CAPLUS  
TI Phosphorylation of the Na<sup>+</sup>/Ca<sup>2+</sup> exchangers by PKA  
AU Ruknudin, A.; Schulze, D. H.  
CS Department of Microbiology and Immunology, University of Maryland,  
Baltimore, MD, 21201, USA  
SO Annals of the New York Academy of sciences (2002), 976(Cellular and  
Molecular Physiology of Sodium-Calcium Exchange), 209-213  
CODEN: ANYAA9; ISSN: 0077-8923  
PB New York Academy of Sciences  
DT Journal  
LA English

RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 6 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:933339 CAPLUS  
DN 138:216196  
TI Molecular Cloning of a Fourth Member of the Potassium-dependent  
\*\*\*sodium\*\*\* - \*\*\*calcium\*\*\* \*\*\*Exchanger\*\*\* Gene Family, NCKX4  
AU Li, Xiao-Fang; Kraev, Alexander S.; Lytton, Jonathan  
CS Department of Biochemistry and Molecular Biology, University of Calgary,  
Calgary, AB, T2N 4N1, Can.  
SO Journal of Biological Chemistry (2002), 277(50), 48410-48417  
CODEN: JBCHA3; ISSN: 0021-9258  
PB American Society for Biochemistry and Molecular Biology  
DT Journal  
LA English

RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 7 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:864380 CAPLUS  
DN 137:346217  
TI Targeting the reverse mode of the \*\*\*sodium\*\*\* / \*\*\*calcium\*\*\*  
\*\*\*exchanger\*\*\* for the treatment of optic neuropathy associated with  
glaucoma and ischemic optic neuropathy

IN Adorante, Joseph S.; Ehring, George R.; Kopper, Kara L.  
PA Allergan, Inc., USA  
SO U.S., 6 pp.  
CODEN: USXXAM  
DT Patent  
LA English  
FAN.CNT 1

|        | PATENT NO.  | KIND  | DATE     | APPLICATION NO. | DATE     |
|--------|---|---|----------|-----------------|----------|
| PI     | US 6479458  | B1  | 20021112 | US 2001-5829    | 20011108 |
|        | WO 2003039573   | A1  | 20030515 | WO 2002-US32651 | 20021011 |
|        | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG |   |          |                 |          |
| PRAI   | US 2001-5829  | A   | 20011108 |                 |          |
| RE.CNT | 18  | THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD |          |                 |          |
|        |   | ALL CITATIONS AVAILABLE IN THE RE FORMAT                |          |                 |          |

L2 ANSWER 8 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:853922 CAPLUS  
DN 138:268979  
TI \*\*\*Sodium\*\*\* / \*\*\*calcium\*\*\* \*\*\*exchanger\*\*\* subtypes NCX1, NCX2 and NCX3 show cell-specific expression in rat hippocampus cultures  
AU Thurneysen, Thomas; Nicoll, Debora A.; Philipson, Kenneth D.; Porzig, Hartmut  
CS Pharmakologisches Institut, Universitat Bern, Bern, CH 3010, Switz.  
SO Molecular Brain Research (2002), 107(2), 145-156  
CODEN: MBREE4; ISSN: 0169-328X  
PB Elsevier Science B.V.  
DT Journal  
LA English  
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 9 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:714221 CAPLUS  
DN 137:243150  
TI Protein and cDNA sequences of a novel human calcium-sodium-exchanging protein sequence homolog and therapeutic uses thereof  
IN Curtis, Rory A. J.  
PA Millenium Pharmaceuticals, Inc., USA  
SO Eur. Pat. Appl., 61 pp.  
CODEN: EPXXDW  
DT Patent  
LA English  
FAN.CNT 1

|        | PATENT NO.  | KIND   | DATE     | APPLICATION NO. | DATE     |
|--------|---|--|----------|-----------------|----------|
| PI     | EP 1241260  | A1   | 20020918 | EP 2002-251810  | 20020312 |
|        | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR |  |          |                 |          |
|        | US 2002132303   | A1   | 20020919 | US 2002-94214   | 20020308 |
| PRAI   | US 2001-275078P   | P  | 20010312 |                 |          |
| RE.CNT | 1   | THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD |          |                 |          |
|        |   | ALL CITATIONS AVAILABLE IN THE RE FORMAT               |          |                 |          |

L2 ANSWER 10 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:679379 CAPLUS  
DN 138:20948  
TI Ionic ligand interactions with the intracellular loop of the \*\*\*sodium\*\*\* - \*\*\*calcium\*\*\* \*\*\*exchanger\*\*\*. Modulation by ATP  
AU DiPolo, Reinaldo; Beauge, Luis  
CS Laboratorio de Permeabilidad Ionica, IVIC, Centro de Biofisica y Bioquimica, Caracas, 1020 A, Venez.  
SO Progress in Biophysics & Molecular Biology (2002), 80(1-2), 43-67  
CODEN: PBIMAC; ISSN: 0079-6107  
PB Elsevier Science Ltd.  
DT Journal; General Review  
LA English

RE.CNT 74 THERE ARE 74 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 11 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:670294 CAPLUS  
DN 138:21066  
TI Determinants of cardiac Na<sup>+</sup>/Ca<sup>2+</sup> exchanger temperature dependence:  
NH<sub>2</sub>-terminal transmembrane segments  
AU Marshall, Christian; Elias, Chadwick; Xue, Xiao-Hua; Le, Hoa Dinh;  
Omelchenko, Alexander; Hryshko, Larry V.; Tibbits, Glen F.  
CS Cardiac Membrane Research Laboratory, Simon Fraser University, Burnaby,  
BC, V5A 1S6, Can.  
SO American Journal of Physiology (2002), 283(2, Pt. 1), C512-C520  
CODEN: AJPHAP; ISSN: 0002-9513  
PB American Physiological Society  
DT Journal  
LA English

RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 12 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:635160 CAPLUS  
DN 138:150627  
TI MgATP and phosphoinositides activate Na<sup>+</sup>/Ca<sup>2+</sup> exchange in bovine brain  
vesicles. Comparison with other Na<sup>+</sup>/Ca<sup>2+</sup> exchangers  
AU Berberian, Graciela; Asteggiano, Carla; Pham, Cuong; Roberts, Shirley;  
Beauge, Luis  
CS Laboratorio de Biofisica, Instituto de Investigacion Medica Mercedes y  
Martin Ferreyra, Cordoba, 5000, Argent.  
SO Pfluegers Archiv (2002), 444(5), 677-684  
CODEN: PFLABK; ISSN: 0031-6768  
PB Springer-Verlag  
DT Journal  
LA English

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 13 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:575240 CAPLUS  
DN 137:136136  
TI Human ion exchanger proteins, cDNA and protein sequences, and use thereof  
IN Friddle, Carl Johan; Hilbun, Erin  
PA Lexicon Genetics Incorporated, USA  
SO PCT Int. Appl., 42 pp.  
CODEN: PIXXD2  
DT Patent  
LA English

FAN.CNT 1

|      | PATENT NO.      | KIND   | DATE     | APPLICATION NO. | DATE     |
|------|-----------------|--|----------|-----------------|----------|
| PI   | WO 2002059316   | A2   | 20020801 | WO 2002-US1817  | 20020122 |
|      | WO 2002059316   | A3   | 20030227 |                 |          |
|      | W:              | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG |          |                 |          |
|      | US 2002132998   | A1   | 20020919 | US 2002-54680   | 20020122 |
| PRAI | US 2001-263384P | P  | 20010123 |                 |          |

L2 ANSWER 14 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:511058 CAPLUS  
DN 137:335471  
TI Developmental changes of Ca<sup>2+</sup> handling in mouse ventricular cells from  
early embryo to adulthood  
AU Liu, Weiran; Yasui, Kenji; Opthof, Tobias; Ishiki, Ryoji; Lee, Jong-Kook;  
Kamiya, Kaichiro; Yokota, Mitsuhiro; Kodama, Itsuo  
CS Research Institute of Environmental Medicine, Department of Circulation,  
Nagoya University, Nagoya, 464-8601, Japan  
SO Life Sciences (2002), 71(11), 1279-1292  
CODEN: LIFSAK; ISSN: 0024-3205  
PB Elsevier Science Inc.

DT Journal

LA English

RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 15 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:469464 CAPLUS

DN 137:245113

TI Contribution of Ca<sup>2+</sup> transporters to relaxation in intact ventricular myocytes from developing rats

AU Bassani, Rosana A.; Bassani, Jose W. M.

CS Centro de Engenharia Biomedica and Departamento de Engenharia Biomedica/Faculdade de Engenharia Eletrica e de Computacao, Universidade Estadual de Campinas, Campinas, 13083-971, Brazil

SO American Journal of Physiology (2002), 282(6, Pt. 2), H2406-H2413

CODEN: AJPAP; ISSN: 0002-9513

PB American Physiological Society

DT Journal

LA English

RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 16 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:402861 CAPLUS

DN 137:182837

TI Na<sup>+</sup>/Ca<sup>2+</sup> exchanger expression in the developing rat cortex

AU Gibney, G. T.; Zhang, J. H.; Douglas, R. M.; Haddad, G. G.; Xia, Y.

CS Department of Pediatrics, Yale University School of Medicine, New Haven, CT, 06520, USA

SO Neuroscience (Oxford, United Kingdom) (2002), 112(1), 65-73

CODEN: NRSCDN; ISSN: 0306-4522

PB Elsevier Science Ltd.

DT Journal

LA English

RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 17 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:226064 CAPLUS

DN 136:398962

TI Role of the Na<sup>+</sup>-Ca<sup>2+</sup> exchanger as an alternative trigger of CICR in \*\*\*mammalian\*\*\* cardiac myocytes

AU Han, Chunlei; Tavi, Pasi; Weckstrom, Matti

CS Department of Physical Sciences/Division of Biophysics, Department of Physiology, University of Oulu, Oulu, 90014, Finland

SO Biophysical Journal (2002), 82(3), 1483-1496

CODEN: BIOJAU; ISSN: 0006-3495

PB Biophysical Society

DT Journal

LA English

RE.CNT 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 18 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:204434 CAPLUS

DN 136:383448

TI Effects of different inotropic interventions on myocardial function in the developing rabbit heart

AU Schiffmann, Holger; Flesch, Markus; Hauseler, Claudia; Pfahlberg, Annette; Bohm, Michael; Hellige, Gerhard

CS Department of Pediatrics, University of Gottingen, Gottingen, 37075, Germany

SO Basic Research in Cardiology (2002), 97(1), 76-87

CODEN: BRCA7; ISSN: 0300-8428

PB Steinkopff Verlag

DT Journal

LA English

RE.CNT 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 19 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:184582 CAPLUS

DN 136:367600

TI \*\*\*Sodium\*\*\* \*\*\*calcium\*\*\* \*\*\*exchanger\*\*\* plays a key role in alteration of cardiac function in response to pressure overload

AU Takimoto, Eiki; Yao, Atsushi; Toko, Haruhiro; Takano, Hiroyuki; Shimoyama,

Masaki; Sonoda, Makoto; Wakimoto, Koji; Takahashi, Toshiyuki; Akazwa, Hiroshi; Mizukami, Mitsuaki; Nacai, Toshio; Nagai, Ryozi; Kuro, Issei  
CS Dep. Cardiovasc. Med., Univ. Tokyo Grad. Sch. Med., Tokyo, 113-8655, Japan  
SO FASEB Journal (2002), 16(3), 373-378  
CODEN: FAJOEC; ISSN: 0892-6638  
PB Federation of American Societies for Experimental Biology  
DT Journal  
LA English  
RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 20 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:106708 CAPLUS  
DN 136:322400  
TI Removal of intracellular Mg<sup>2+</sup> activates cardiac Na<sup>+</sup>/Ca<sup>2+</sup> exchanger  
AU Kiyosue, Tatsuto  
CS Department of Physiology, Oita Medical University, Oita, Hasama, 879-5593, Japan  
SO Cardiovascular Research (2002), 53(2), 290-291  
CODEN: CVREAU; ISSN: 0008-6363  
PB Elsevier Science B.V.  
DT Journal; General Review  
LA English  
RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 21 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2001:817533 CAPLUS  
DN 136:83319  
TI The role of Na<sup>+</sup>/Ca<sup>2+</sup> exchanger in osteoclast differentiation  
AU Amano, Hitoshi; Suzuki, Keiko; Yamada, Shoji  
CS Department of Pharmacology, Showa University School of Dentistry, Tokyo, 142-8555, Japan  
SO Showa Shigakkai Zasshi (2001), 21(1), 82-85  
CODEN: SSZADC; ISSN: 0285-922X  
PB Showa Daigaku Showa shigakkai  
DT Journal  
LA Japanese

L2 ANSWER 22 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2001:694398 CAPLUS  
DN 135:340543  
TI Temperature dependence of cloned \*\*\*mammalian\*\*\* and salmonid cardiac Na<sup>+</sup>/Ca<sup>2+</sup> exchanger isoforms  
AU Elias, Chadwick L.; Xue, Xiao-Hua; Marshall, Christian R.; Omelchenko, Alexander; Hryshko, Larry V.; Tibbits, Glen F.  
CS Institute of Cardiovascular Sciences, St. Boniface General Hospital Research Centre, The University of Manitoba, Winnipeg, MB, R2H 2A6, Can.  
SO American Journal of Physiology (2001), 281(3, Pt. 1), C993-C1000  
CODEN: AJPHAP; ISSN: 0002-9513  
PB American Physiological Society  
DT Journal  
LA English  
RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 23 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2001:654233 CAPLUS  
DN 135:286351  
TI Expression of Na<sup>+</sup>/Ca<sup>2+</sup> exchanger (NCX1) gene in the developmental mouse embryo and adult mouse brain  
AU Wakimoto, K.; Kuro-o, M.; Yanaka, N.; Komuro, I.; Nabeshima, Y.-i.; Imai, Y.  
CS Discovery Research Laboratory, Tanabe Seiyaku Co., Ltd, Osaka, Yodogawa-ku, 532-8505, Japan  
SO Comparative Biochemistry and Physiology, Part B: Biochemistry & Molecular Biology (2001), 130B(2), 191-198  
CODEN: CBPBB8; ISSN: 1096-4959  
PB Elsevier Science Inc.  
DT Journal  
LA English  
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 24 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2001:587549 CAPLUS

DN 135:301474  
TI Targeted inactivation of the \*\*\*sodium\*\*\* - \*\*\*calcium\*\*\*  
\*\*\*exchanger\*\*\* (NCX1) results in the lack of a heartbeat and abnormal  
myofibrillar organization  
AU Koushik, Srinagesh V.; Wang, Jian; Rogers, Rhonda; Moskopidhis, Demetrius;  
Lambert, Nevin A.; Creazzo, Tony L.; Conway, Simon J.  
CS Institute of Molecular Medicine and Genetics, Medical College of Georgia,  
Augusta, GA, USA  
SO FASEB Journal (2001), 15(7), 1209-1211, 10.1096/fj.00-0696fje  
CODEN: FAJOEC; ISSN: 0892-6638  
PB Federation of American Societies for Experimental Biology  
DT Journal  
LA English  
RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 25 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2001:460560 CAPLUS  
DN 135:208466  
TI Analysis of Na<sup>+</sup>/Ca<sup>2+</sup> exchanger knockout mice  
AU Takimoto, Eiki  
CS Department of Cardiovascular Medicine, Graduate School of Medicine,  
University of Tokyo, Japan  
SO Clinical Calcium (2001), 11(6), 749-757  
CODEN: CLCCEJ; ISSN: 0917-5857  
PB Iyaku Janarusha  
DT Journal; General Review  
LA Japanese

L2 ANSWER 26 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2001:301587 CAPLUS  
DN 134:364699  
TI Expression of the Na<sup>+</sup>/Ca<sup>2+</sup> exchanger in skeletal muscle  
AU Frayse, Bodvaël; Rouaud, Thierry; Millour, Marie; Fontaine-Perus,  
Josiane; Gardahaut, Marie-France; Levitsky, Dmitri O.  
CS Faculté des Sciences et des Techniques, Université de Nantes, Nantes, Fr.  
SO American Journal of Physiology (2001), 280(1, Pt. 1), C146-C154  
CODEN: AJPHAP; ISSN: 0002-9513  
PB American Physiological Society  
DT Journal  
LA English  
RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 27 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2001:105893 CAPLUS  
DN 135:148088  
TI Isolation and characterization of Na<sup>+</sup>/Ca<sup>2+</sup> exchanger gene and splicing  
isoforms in mice  
AU Wakimoto, Koji; Kuro-o, Makoto; Yanaka, Noriyuki; Omori, Kenji; Komuro,  
Issei; Imai, Yuji; Nabeshima, Yo-Ichi  
CS Advanced Medical Research Department, Tanabe Seiyaku Co. Ltd., Osaka,  
532-8505, Japan  
SO DNA Sequence (2000), 11(1-2), 75-81  
CODEN: DNSEES; ISSN: 1042-5179  
PB Harwood Academic Publishers  
DT Journal  
LA English  
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 28 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2000:812897 CAPLUS  
DN 134:67591  
TI In squid nerves intracellular Mg<sup>2+</sup> promotes deactivation of the  
ATP-upregulated Na<sup>+</sup>/Ca<sup>2+</sup> exchanger  
AU DiPolo, Reinaldo; Berberian, Graciela; Beauge, Luis  
CS Laboratorio de Permeabilidad Iónica, Centro de Biofísica y Bioquímica,  
Instituto Venezolano de Investigaciones Científicas, Caracas, 1020-A,  
Venez.  
SO American Journal of Physiology (2000), 279(5, Pt. 1), C1631-C1639  
CODEN: AJPHAP; ISSN: 0002-9513  
PB American Physiological Society  
DT Journal  
LA English  
RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 29 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2000:488270 CAPLUS  
 DN 133:190902  
 TI Calcineurin controls the transcription of Na<sup>+</sup>/Ca<sup>2+</sup> exchanger isoforms in developing cerebellar neurons  
 AU Li, Lei; Guerini, Danilo; Carafoli, Ernesto  
 CS Institute of Biochemistry, Swiss Federal Institute of Technology, Zurich, 8092, Switz.  
 SO Journal of Biological Chemistry (2000), 275(27), 20903-20910  
 CODEN: JBCHA3; ISSN: 0021-9258  
 PB American Society for Biochemistry and Molecular Biology  
 DT Journal  
 LA English  
 RE.CNT 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 30 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2000:278904 CAPLUS  
 DN 133:14879  
 TI Cloning and characterization of a potassium-dependent \*\*\*\*sodium\*\*\*\* / \*\*\*\*calcium\*\*\*\* \*\*\*\*exchanger\*\*\*\* in Drosophila  
 AU Haug-Collet, K.; Pearson, B.; Webel, R.; Szerencsei, R. T.; Winkfein, R. J.; Schnetkamp, P. P. M.; Colley, N. J.  
 CS Department of Ophthalmology and Visual Sciences, Department of Genetics, University of Wisconsin, Madison, WI, 53706, USA  
 SO Journal of Cell Biology (1999), 147(3), 659-669  
 CODEN: JCLBA3; ISSN: 0021-9525  
 PB Rockefeller University Press  
 DT Journal  
 LA English  
 RE.CNT 82 THERE ARE 82 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 31 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2000:207782 CAPLUS  
 DN 132:332359  
 TI Molecular cloning and functional expression of the potassium-dependent \*\*\*\*sodium\*\*\*\* - \*\*\*\*calcium\*\*\*\* \*\*\*\*exchanger\*\*\*\* from human and chicken retinal cone photoreceptors  
 AU Prinsen, Clemens F. M.; Szerencsei, Robert T.; Schnetkamp, Paul P. M.  
 CS Department of Physiology and Biophysics and the Medical Research Council Group on Ion Channels and Transporters, Faculty of Medicine, University of Calgary, Calgary, AB, T2N 4N1, Can.  
 SO Journal of Neuroscience (2000), 20(4), 1424-1434  
 CODEN: JNRSDS; ISSN: 0270-6474  
 PB Society for Neuroscience  
 DT Journal  
 LA English  
 RE.CNT 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 32 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2000:182644 CAPLUS  
 DN 132:320128  
 TI Cytosolic Ca<sup>2+</sup> concentration during Ca<sup>2+</sup> depletion of isolated rat hearts  
 AU Jansen, Maurits A.; Badlou, Bahram Alamdary; Van Echteld, Cees J. A.; Ruigrok, Tom J. C.  
 CS Department of Cardiology, Heart Lung Institute, University Hospital, Utrecht, 3508, Neth.  
 SO Molecular and Cellular Biochemistry (2000), 203(1&2), 169-175  
 CODEN: MCBIB8; ISSN: 0300-8177  
 PB Kluwer Academic Publishers  
 DT Journal  
 LA English  
 RE.CNT 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 33 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2000:139751 CAPLUS  
 DN 132:320049  
 TI Expression of the \*\*\*\*sodium\*\*\*\* / \*\*\*\*calcium\*\*\*\* \*\*\*\*Exchanger\*\*\*\* in \*\*\*\*Mammalian\*\*\*\* Skeletal Muscle Cells in Primary Culture  
 AU Deval, Emmanuel; Levitsky, Dmitri O.; Constantin, Bruno; Raymond, Guy; Cognard, Christian



CS Biomembranes and Cell Signaling Laboratory, UMR CNRS/University of  
Poitiers No. 6558, Poitiers, 86022, Fr.  
SO Experimental Cell Research (2000), 255(2), 291-302  
CODEN: ECREAL; ISSN: 0014-4827  
PB Academic Press  
DT Journal  
LA English

RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 34 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2000:112627 CAPLUS  
DN 132:291544  
TI Gene expression of Na<sup>+</sup>/Ca<sup>2+</sup> exchanger during development in human heart  
AU Qu, Y.; Ghatpande, A.; El-Sherif, N.; Boutjdir, M.  
CS Department of Medicine, Cardiology Division, V.A. Medical Center and SUNY  
Health Science Center, Brooklyn, NY, USA  
SO Cardiovascular Research (2000), 45(4), 866-873  
CODEN: CVREAU; ISSN: 0008-6363  
PB Elsevier Science B.V.  
DT Journal  
LA English

RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 35 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2000:38643 CAPLUS  
DN 132:177187  
TI Minimal domain requirement for cation transport by the potassium-dependent  
Na/Ca-K exchanger. Comparison with an NCKX paralog from *Caenorhabditis*  
*elegans*  
AU Szerencsei, Robert T.; Tucker, Joseph E.; Cooper, Conan B.; Winkfein,  
Robert J.; Farrell, Patrick J.; Iatrou, Kostas; Schnetkamp, Paul P. M.  
CS Departments of Physiology and Biophysics, Medical Research Council Group  
on Ion Channels and Transporters, University of Calgary, Calgary, AB, T2N  
4N1, Can.  
SO Journal of Biological Chemistry (2000), 275(1), 669-676  
CODEN: JBCHA3; ISSN: 0021-9258  
PB American Society for Biochemistry and Molecular Biology  
DT Journal  
LA English

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 36 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1999:714028 CAPLUS  
DN 132:21217  
TI Cloning, expression, and characterization of the trout cardiac Na<sup>+</sup>/Ca<sup>2+</sup>  
exchanger  
AU Xue, Xiao-Hua; Hryshko, Larry V.; Nicoll, Debora A.; Philipson, Kenneth  
D.; Tibbits, Glen F.  
CS Cardiac Membrane Research Laboratory, Simon Fraser University, Burnaby,  
BC, V5A 1S6, Can.  
SO American Journal of Physiology (1999), 277(4, Pt. 1), C693-C700  
CODEN: AJPHAP; ISSN: 0002-9513  
PB American Physiological Society  
DT Journal  
LA English

RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 37 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1998:724689 CAPLUS  
DN 130:79123  
TI Protein Kinase C-Dependent Regulation of Na<sup>+</sup>/Ca<sup>2+</sup> Exchanger Isoforms NCX1  
and NCX3 Does Not Require Their Direct Phosphorylation  
AU Iwamoto, Takahiro; Pan, Yan; Nakamura, Tomoe Y.; Wakabayashi, Shigeo;  
Shigekawa, Muneakazu  
CS Department of Molecular Physiology, National Cardiovascular Center  
Research Institute, Osaka, 565, Japan  
SO Biochemistry (1998), 37(49), 17230-17238  
CODEN: BICHAW; ISSN: 0006-2960  
PB American Chemical Society  
DT Journal  
LA English

RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 38 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1998:544711 CAPLUS  
 DN 129:258144  
 TI Differential inhibition of Na<sup>+</sup>/Ca<sup>2+</sup> exchanger isoforms by divalent cations and isothioureia derivative  
 AU Iwamoto, Takahiro; Shigekawa, Munekazu  
 CS Department of Molecular Physiology, National Cardiovascular Center Research Institute, Suita, 565, Japan  
 SO American Journal of Physiology (1998), 275(2, Pt. 1), C423-C430  
 CODEN: AJPHAP; ISSN: 0002-9513  
 PB American Physiological Society  
 DT Journal  
 LA English  
 RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 39 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1998:494700 CAPLUS  
 DN 129:198480  
 TI Thyroid control of sarcolemmal Na<sup>+</sup>/Ca<sup>2+</sup> exchanger and SR Ca<sup>2+</sup>-ATPase in developing rat heart  
 AU Cernohorsky, Jan; Kolar, Frantisek; Pelouch, Vaclav; Korecky, Borivoj; Vetter, Roland  
 CS Inst. Physiol., Acad. Sci. Czech Republic, Prague, 142 20, Czech.  
 SO American Journal of Physiology (1998), 275(1, Pt. 2), H264-H273  
 CODEN: AJPHAP; ISSN: 0002-9513  
 PB American Physiological Society  
 DT Journal  
 LA English  
 RE.CNT 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 40 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1998:311339 CAPLUS  
 DN 129:106870  
 TI Functional differences in ionic regulation between alternatively spliced isoforms of the Na<sup>+</sup>-Ca<sup>2+</sup> exchanger from Drosophila melanogaster  
 AU Omelchenko, Alexander; Dyck, Christopher; Hnatowich, Mark; Buchko, John; Nicoll, Debora A.; Philipson, Kenneth D.; Hryshko, Larry V.  
 CS Institute of Cardiovascular Sciences, St. Boniface General Hospital Research Centre, Winnipeg, MB, R2H 2A6, Can.  
 SO Journal of General Physiology (1998), 111(5), 691-702  
 CODEN: JGPLAD; ISSN: 0022-1295  
 PB Rockefeller University Press  
 DT Journal  
 LA English  
 RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 41 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1998:223620 CAPLUS  
 DN 129:1331  
 TI Cloning of the multipartite promoter of the \*\*\*\*sodium\*\*\*\* - \*\*\*\*calcium\*\*\*\* \*\*\*\*exchanger\*\*\*\* gene NCX1 and characterization of its activity in vascular smooth muscle cells  
 AU Scheller, Timo; Kraev, Alexander; Skinner, Sven; Carafoli, Ernesto  
 CS Institute of Biochemistry, Swiss Federal Institute of Technology (ETH), Zurich, 8092, Switz.  
 SO Journal of Biological Chemistry (1998), 273(13), 7643-7649  
 CODEN: JBCHA3; ISSN: 0021-9258  
 PB American Society for Biochemistry and Molecular Biology  
 DT Journal  
 LA English  
 RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 42 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1998:214005 CAPLUS  
 DN 129:3068  
 TI Calcium extrusion from \*\*\*\*mammalian\*\*\*\* photoreceptor terminals  
 AU Morgans, Catherine W.; El Far, Oussama; Berntson, Amy; Wassle, Heinz; Taylor, W. Rowland  
 CS Department of Neuroanatomy, Max-Planck-Institute fur Hirnforschung, Frankfurt, D-60528, Germany

SO Journal of Neuroscience (1998), 18(7), 2467-2474

CODEN: JNRSDS; ISSN: 0 -6474

PB Society for Neuroscience

DT Journal

LA English

RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 43 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1998:206907 CAPLUS

DN 129:14696

TI Expressional analysis of the cardiac Na-Ca exchanger in rat development and senescence

AU Koban, Maren U.; Moorman, Antoon F. M.; Holtz, Jurgen; Yacoub, Magdi H.; Boheler, Kenneth R.

CS ICSM, National Heart and Lung Institute, London, SW3 6LY, UK

SO Cardiovascular Research (1998), 37(2), 405-423

CODEN: CVREAU; ISSN: 0008-6363

PB Elsevier Science B.V.

DT Journal

LA English

RE.CNT 70 THERE ARE 70 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 44 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1998:168174 CAPLUS

DN 128:293133

TI Identification of alternatively spliced Na<sup>+</sup>-Ca<sup>2+</sup> exchanger isoforms expressed in the heart

AU Kim, Injune; Koh, Gou Young; Lee, Chin O.

CS Department of Life Science, Pohang University of Science and Technology, Pohang, 790-784, S. Korea

SO Comparative Biochemistry and Physiology, Part B: Biochemistry & Molecular Biology (1998), 119B(1), 157-161

CODEN: CBPBB8; ISSN: 0305-0491

PB Elsevier Science Inc.

DT Journal

LA English

RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 45 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1998:12699 CAPLUS

DN 128:113240

TI A conservation principle and its effect on the formulation of Na-Ca exchanger current in cardiac cells

AU Varghese, Anthony; Sell, George R.

CS AHPCRC, University of Minnesota, Minneapolis, MN, 55415, USA

SO Journal of Theoretical Biology (1997), 189(1), 33-40

CODEN: JTBIAP; ISSN: 0022-5193

PB Academic Press Ltd.

DT Journal

LA English

RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 46 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1997:795505 CAPLUS

DN 128:100129

TI Immunolocalization of the Na<sup>+</sup>-Ca<sup>2+</sup> exchanger in \*\*\*mammalian\*\*\* myelinated axons

AU Steffensen, Isabella; Waxman, Stephen G.; Mills, Linda; Stys, Peter K.

CS Carling Ave., Loeb Medical Research Institute, Neurosciences, Ottawa Civic Hospital, Ottawa, Ont. K1Y 4E9, 1053, Can.

SO Brain Research (1997), 776(1,2), 1-9

CODEN: BRREAP; ISSN: 0006-8993

PB Elsevier Science B.V.

DT Journal

LA English

L2 ANSWER 47 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1997:725374 CAPLUS

DN 128:46260

TI Subcellular distribution of ankyrin in developing rabbit heart-relationship to the Na<sup>+</sup>-Ca<sup>2+</sup> exchanger

AU Chen, Fuhua; Mottino, Giuliano; Shin, Victoria; Frank, Joy S.

CS School of Medicine, University of California Los Angeles, Los Angeles, CA,  
90095-1760, USA  
SO Journal of Molecular and Cellular Cardiology (1997), 29(10), 2621-2629  
CODEN: JMCDAJ; ISSN: 0022-2828  
PB Academic  
DT Journal  
LA English  
RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 48 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1997:625515 CAPLUS  
DN 127:260542  
TI Perinatal maturation of myocardial contraction: the role of Na<sup>+</sup>-Ca<sup>2+</sup>  
exchange  
AU Haddock, Peter S.; Coetzee, William A.; Nakamura, Tomoe Y.; Balaguru,  
Durisamy; Boerth, Scott R.; Artman, Michael  
CS Department of Pharmacology, University of South Alabama College of  
Medicine, Mobile, AL, 36688, USA  
SO Developing Heart (1997), 231-245. Editor(s): Ostadal, Bohuslav.  
Publisher: Lippincott-Raven, Philadelphia, Pa.  
CODEN: 65BTA3  
DT Conference; General Review  
LA English

L2 ANSWER 49 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1997:625513 CAPLUS  
DN 127:260540  
TI Biochemical basis of calcium handling in developing myocardium  
AU Nijjar, Mohinder S.; Dhalla, Naranjan S.  
CS Institute of Cardiovascular Sciences, St. Boniface General Hospital  
Research Centre, Faculty of Medicine, University of Manitoba, Winnipeg,  
MB, R2H 2A6, Can.  
SO Developing Heart (1997), 189-217. Editor(s): Ostadal, Bohuslav.  
Publisher: Lippincott-Raven, Philadelphia, Pa.  
CODEN: 65BTA3  
DT Conference; General Review  
LA English

L2 ANSWER 50 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1997:520806 CAPLUS  
DN 127:203231  
TI Na<sup>+</sup>/Ca<sup>2+</sup> exchanger in Drosophila: cloning, expression, and transport  
differences  
AU Ruknudin, Abdul; Valdivia, Carmen; Kofuji, Paulo; Lederer, W. J.; Schulze,  
Dan H.  
CS Department of Microbiology and Immunology, University of Maryland School  
of Medicine and Medical Biotechnology Center, Baltimore, MD, 21201, USA  
SO American Journal of Physiology (1997), 273(1, Pt. 1), C257-C265  
CODEN: AJPHAP; ISSN: 0002-9513  
PB American Physiological Society  
DT Journal  
LA English

L2 ANSWER 51 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1997:377544 CAPLUS  
DN 127:120212  
TI Expression and function of the cardiac Na<sup>+</sup>/Ca<sup>2+</sup> exchanger in postnatal  
development of rat, in experimental-induced cardiac hypertrophy and in the  
failing human heart  
AU Studer, Roland; Reinecke, Hans; Vetter, Roland; Holtz, Jurgen; Drexler,  
Helmut  
CS Klinik Innere Medizin III, Univ. Freiburg, Freiburg/Br., D-79106, Germany  
SO Basic Research in Cardiology (1997), 92(Suppl. 1), 53-5<sup>o</sup>  
CODEN: BRCAB7; ISSN: 0300-8428  
PB Steinkopff  
DT Journal  
LA English

L2 ANSWER 52 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1997:326920 CAPLUS  
DN 127:48102  
TI Tissue specificity and alternative splicing of the Na<sup>+</sup>/Ca<sup>2+</sup> exchanger  
isoforms NCX1, NCX2, and NCX3 in rat  
AU Quednau, Beate D.; Nicoll, Debora A.; Philipson, Kenneth D.  
CS Departments Physiology Medicine and Cardiovascular Research Laboratories,

School Medicine, University California, Los Angeles, Los Angeles, CA,  
90095-1760, USA

SO American Journal of Physiology (1997), 272(4, Pt. 1), C1250-C1261  
CODEN: AJPHAP; ISSN: 0002-9513

PB American Physiological Society  
DT Journal  
LA English

L2 ANSWER 53 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1997:305929 CAPLUS  
DN 126:341357  
TI Molecular anatomy of the node of Ranvier: newer concepts  
AU Waxman, Stephen G.  
CS Department of Neurology, Yale University School of Medicine, New Haven,  
CT, USA  
SO Neurobiology of Disease (1996), 13-28. Editor(s): Bostock, H.; Kirkwood,  
P. A.; Pullen, A. H. Publisher: Cambridge University Press, Cambridge, UK.  
CODEN: 64IVA3  
DT Conference; General Review  
LA English

L2 ANSWER 54 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1997:278349 CAPLUS  
DN 126:315370  
TI Contribution of the \*\*\*sodium\*\*\* - \*\*\*calcium\*\*\* \*\*\*exchanger\*\*\*  
to contractions in immature rabbit ventricular myocytes  
AU Chin, Thomas K.; Christiansen, Gregory A.; Caldwell, Jon G.; Thorburn,  
Jacqueline  
CS Department of Pediatrics, University of Utah Health Sciences Center, Salt  
Lake City, UT, 84113, USA  
SO Pediatric Research (1997), 41(4, Pt. 1), 480-485  
CODEN: PEREBL; ISSN: 0031-3998  
PB Williams & Wilkins  
DT Journal  
LA English

L2 ANSWER 55 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1996:617189 CAPLUS  
DN 125:267114  
TI The organization of the human gene NCX1 encoding the \*\*\*sodium\*\*\* -  
\*\*\*calcium\*\*\* \*\*\*exchanger\*\*\*  
AU Kraev, Alexander; Chumakov, Ilya; Carafoli, Ernesto  
CS Inst. Biochem., Swiss Federal Int. Technology (ETH), Zurich, 8092, Switz.  
SO Genomics (1996), 37(1), 105-112  
CODEN: GNMCEP; ISSN: 0888-7543  
PB Academic  
DT Journal  
LA English

L2 ANSWER 56 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1996:613382 CAPLUS  
DN 125:267098  
TI Cloning of a third \*\*\*mammalian\*\*\* Na<sup>+</sup>-Ca<sup>2+</sup> exchanger, NCX3  
AU Nicoll, Debora A.; Quednau, Beate D.; Qui, Zhiyong; Xia, Yu-Rong; Lysis,  
Aldons J.; Philipson, Kenneth D.  
CS Dep. Physiol. Med., Univ. California, Los Angeles Sch. Med., Los Angeles,  
CA, 90095-1760, USA  
SO Journal of Biological Chemistry (1996), 271(40), 24914-24921  
CODEN: JBCHA3; ISSN: 0021-9258  
PB American Society for Biochemistry and Molecular Biology  
DT Journal  
LA English

L2 ANSWER 57 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1996:432904 CAPLUS  
DN 125:77089  
TI Ontogeny and hormonal regulation of cardiac Na<sup>+</sup>-Ca<sup>2+</sup> exchanger expression  
in rabbits  
AU Boerth, Scott R.; Coetzee, William A.; Artman, Michael  
CS School of Medicine, New York University, New York, NY, 10016, USA  
SO Annals of the New York Academy of Sciences (1996), 779(Sodium-Calcium  
Exchange), 536-538  
CODEN: ANYAA9; ISSN: 0077-8923  
PB New York Academy of Sciences  
DT Journal  
LA English

L2 ANSWER 58 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1996:432855 CAPLUS

DN 125:110782

TI Localization of the Na<sup>+</sup>-Ca<sup>2+</sup> exchanger in vascular smooth muscle, and in neurons and astrocytes

AU Juhaszova, Magdalena; Shimizu, Hiroshi; Borin, Mikhail L.; Yip, Rick K.; Santiago, Eligio M.; Lindenmayer, George E.; Blaustein, Mordecai P.

CS School of Medicine, University of Maryland, Baltimore, MD, 21201, USA

SO Annals of the New York Academy of Sciences (1996), 779(Sodium-Calcium Exchange), 318-335

CODEN: ANYAA9; ISSN: 0077-8923

PB New York Academy of Sciences

DT Journal; General Review

LA English

L2 ANSWER 59 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1996:432792 CAPLUS

DN 125:106626

TI Alternative splicing of the Na<sup>+</sup>-Ca<sup>2+</sup> exchanger gene, NCX1

AU Schulze, D. H.; Kofuji, P.; Valdivia, C.; He, S.; Luo, S.; Ruknudin, A.; Wisel, S.; Kirby, M. S.; duBell, W.; Lederer, W. J.

CS School of Medicine, University of Maryland, Baltimore, MD, 21201, USA

SO Annals of the New York Academy of Sciences (1996), 779(Sodium-Calcium Exchange), 46-57

CODEN: ANYAA9; ISSN: 0077-8923

PB New York Academy of Sciences

DT Journal

LA English

L2 ANSWER 60 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1996:432790 CAPLUS

DN 125:138226

TI A new splicing variant in the frog heart sarcolemmal Na-Ca exchanger creates a putative ATP-binding site

AU Iwata, Tomoko; Kraev, Alexander; Guerini, Danilo; Carafoli, Ernesto

CS Institute of Biochemistry, Swiss Federal Institute of Technology, Zurich, 8092, Switz.

SO Annals of the New York Academy of Sciences (1996), 779(Sodium-Calcium Exchange), 37-45

CODEN: ANYAA9; ISSN: 0077-8923

PB New York Academy of Sciences

DT Journal

LA English

L2 ANSWER 61 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1996:276287 CAPLUS

DN 124:308117

TI Thyroid hormone regulates Na<sup>+</sup>-Ca<sup>2+</sup> exchanger expression during postnatal maturation and in adult rabbit ventricular myocardium

AU Boerth, Scott R.; Artman, Michael

CS College Medicine, University South Alabama, Mobile, AL, USA

SO Cardiovascular Research (1996), 31(Extra Issue), E145-E152

CODEN: CVREAU; ISSN: 0008-6363

PB Elsevier

DT Journal

LA English

L2 ANSWER 62 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1995:914099 CAPLUS

DN 123:311035

TI Expression of the sarcolemmal \*\*\*sodium\*\*\* - \*\*\*calcium\*\*\*  
\*\*\*exchanger\*\*\* during perinatal cardiac development

AU Boerth, Scott Robert

CS Univ. of South Alabama, Mobile, AL, USA

SO (1995) No pp. given Avail.: Univ. Microfilms Int., Order No. DA9527820

From: Diss. Abstr. Int., B 1995, 56(4), 1869

DT Dissertation

LA English

L2 ANSWER 63 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1995:831834 CAPLUS

DN 123:224385

TI Reciprocal regulation of cardiac Na-K-ATPase and Na/Ca exchanger:  
hypertension, thyroid hormone, development

AU Magyar, Clara E.; Wang, Jiangnan; Azuma, Kay K.; McDonough, Alicia A.

CS Dep. Physiol. Biophys., Univ. Southern California Sch. Med., Los Angeles,  
CA, 90033, USA  
SO American Journal of Physiology (1995), 269(3, Pt. 1), C675-C682  
CODEN: AJPHAP; ISSN: 0002-9513  
PB American Physiological Society  
DT Journal  
LA English

L2 ANSWER 64 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1995:781314 CAPLUS  
DN 123:194769  
TI Reciprocal changes in the postnatal expression of the sarcolemmal  
Na<sup>+</sup>-Ca<sup>2+</sup>-exchanger and SERCA2 in rat heart  
AU Vetter, Roland; Studer, Roland; Reinecke, Hans; Kolar, Frantisek;  
Ostadalova, Ivana; Drexler, Helmut  
CS Max Delbrueck Center for Molecular Medicine, Berlin, D-13122, Germany  
SO Journal of Molecular and Cellular Cardiology (1995), 27(8), 1689-701  
CODEN: JMCDAJ; ISSN: 0022-2828  
PB Academic  
DT Journal  
LA English

L2 ANSWER 65 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1995:507331 CAPLUS  
DN 122:262426  
TI New concepts in the cardioprotective action of magnesium and taurine  
during the calcium paradox and ischemia of the heart  
AU Suleiman, M.-S.  
CS Dep. Physiology, Univ. Bristol, Bristol, BS2 8EJ, UK  
SO Magnesium Research (1994), 7(3/4), 295-312  
CODEN: MAGREF; ISSN: 0953-1424  
PB Libbey  
DT Journal; General Review  
LA English

L2 ANSWER 66 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1994:677414 CAPLUS  
DN 121:277414  
TI Effects of rapid changes of external Na<sup>+</sup> concentration at different  
moments during the action potential in guinea pig myocytes  
AU Le Guennec, Jean-Yves; Noble, Denis  
CS Univ. Lab. Phys., Univ. Oxford, Oxford, OX1 3PT, UK  
SO Journal of Physiology (Cambridge, United Kingdom) (1994), 478(3), 493-504  
CODEN: JPHYA7; ISSN: 0022-3751  
DT Journal  
LA English

L2 ANSWER 67 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1993:230772 CAPLUS  
DN 118:230772  
TI Expression of the \*\*\*sodium\*\*\* - \*\*\*calcium\*\*\* \*\*\*exchanger\*\*\*  
in diverse tissues: A study using the cloned human cardiac \*\*\*sodium\*\*\*  
- \*\*\*calcium\*\*\* \*\*\*exchanger\*\*\*  
AU Kofuji, Paulo; Hadley, Robert W.; Kieval, Robert S.; Lederer, W. J.;  
Schulze, Dan H.  
CS Sch. Med., Univ. Maryland, Baltimore, MD, 21201, USA  
SO American Journal of Physiology (1992), 263(6, Pt. 1), C1241-C1249  
CODEN: AJPHAP; ISSN: 0002-9513  
DT Journal  
LA English

L2 ANSWER 68 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1993:56834 CAPLUS  
DN 118:56834  
TI Presynaptic localization of \*\*\*sodium\*\*\* / \*\*\*calcium\*\*\*  
\*\*\*exchangers\*\*\* in neuromuscular preparations  
AU Luther, Paul W.; Yip, Rick K.; Bloch, Robert J.; Ambesi, Anthony;  
Lindenmayer, George E.; Blaustein, Mordecai P.  
CS Sch. Med., Univ. Maryland, Baltimore, MD, 21201, USA  
SO Journal of Neuroscience (1992), 12(12), 4898-904  
CODEN: JNRSDS; ISSN: 0270-6474  
DT Journal  
LA English

L2 ANSWER 69 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1993:36415 CAPLUS

DN 118:36415  
 TI \*\*\*Sodium\*\*\* - \*\*\*calcium\*\*\* \*\*\*exchanger\*\*\* rat proximal  
 tubule: gene expression and subcellular localization  
 AU Dominguez, Jesus H.; Juhaszova, Magdalena; Kleiboeker, Steven B.; Hale,  
 Calvin C.; Feister, Hilary A.  
 CS Med. Sch., Indiana Univ., Indianapolis, IN, 46202, USA  
 SO American Journal of Physiology (1992), 263(5, Pt. 2), F945-F950  
 CODEN: AJPHAP; ISSN: 0002-9513  
 DT Journal  
 LA English

L2 ANSWER 70 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1992:467880 CAPLUS  
 DN 117:67880  
 TI Reverse operation of the \*\*\*sodium\*\*\* - \*\*\*calcium\*\*\*  
 \*\*\*exchanger\*\*\* mediates calcium influx during anoxia in  
 \*\*\*mammalian\*\*\* CNS white matter  
 AU Stys, Peter K.; Waxman, Stephen G.; Ransom, Bruce R.  
 CS Sch. Med., Yale Univ., New Haven, CT, 06510, USA  
 SO Annals of the New York Academy of Sciences (1991), 639(Sodium-Calcium  
 Exch.), 328-32  
 CODEN: ANYAA9; ISSN: 0077-8923  
 DT Journal  
 LA English

L2 ANSWER 71 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1992:211592 CAPLUS  
 DN 116:211592  
 TI Distribution of the sodium-calcium exchange protein in \*\*\*mammalian\*\*\*  
 cardiac myocytes: an immunofluorescence and immunocolloidal gold-labeling  
 study  
 AU Frank, J. S.; Mottino, G.; Reid, D.; Molday, R. S.; Philipson, K. D.  
 CS Sch. Med., UCLA, Los Angeles, CA, 90024-1760, USA  
 SO Journal of Cell Biology (1992), 117(2), 337-45  
 CODEN: JCLBA3; ISSN: 0021-9525  
 DT Journal  
 LA English

L2 ANSWER 72 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1992:191636 CAPLUS  
 DN 116:191636  
 TI At least three functional isoforms of the cardiac \*\*\*sodium\*\*\* -  
 \*\*\*calcium\*\*\* \*\*\*exchanger\*\*\* exist  
 AU Drubaix, I.; Kassis, N.; Lelievre, L. G.  
 CS Lab. Pharmacol. Transp. Ioniques Membr., Univ. Paris 7, Paris, 75251, Fr.  
 SO Annals of the New York Academy of Sciences (1991), 639(Sodium-Calcium  
 Exch.), 248-9  
 CODEN: ANYAA9; ISSN: 0077-8923  
 DT Journal  
 LA English

L2 ANSWER 73 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1992:171489 CAPLUS  
 DN 116:171489  
 TI Ionic mechanisms of anoxic injury in \*\*\*mammalian\*\*\* CNS white matter:  
 role of sodium channels and \*\*\*sodium\*\*\* - \*\*\*calcium\*\*\*  
 \*\*\*exchanger\*\*\*  
 AU Stys, Peter K.; Waxman, Stephen G.; Ransom, Bruce R.  
 CS Sch. Med., Yale Univ., New Haven, CT, 06510, USA  
 SO Journal of Neuroscience (1992), 12(2), 430-9  
 CODEN: JNRSDS; ISSN: 0270-6474  
 DT Journal  
 LA English

L2 ANSWER 74 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1992:56650 CAPLUS  
 DN 116:56650  
 TI \*\*\*Sodium\*\*\* - \*\*\*calcium\*\*\* \*\*\*exchanger\*\*\* mediates calcium  
 influx during anoxia in \*\*\*mammalian\*\*\* central nervous system white  
 matter  
 AU Stys, Peter K.; Waxman, Stephen G.; Ransom, Bruce R.  
 CS Sch. Med., Yale Univ., New Haven, CT, 06510, USA  
 SO Annals of Neurology (1991), 30(3), 375-80  
 CODEN: ANNE3; ISSN: 0364-5134  
 DT Journal  
 LA English



L2 ANSWER 75 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1991:580101 CAPLUS  
DN 115:180101  
TI Expression of renal sodium-calcium exchange activity in *Xenopus laevis*  
oocytes  
AU Milovanovic, Snezana; Frindt, Gustavo; Tate, Suresh S.; Windhager, Erich  
E.  
CS Med. Coll., Cornell Univ., New York, NY, 10021, USA  
SO American Journal of Physiology (1991), 261(2, Pt. 2), F207-F212  
CODEN: AJPHAP; ISSN: 0002-9513  
DT Journal  
LA English

L2 ANSWER 76 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1991:138165 CAPLUS  
DN 114:138165  
TI Effect of temperature on sodium-calcium exchange in sarcolemma from  
\*\*\*mammalian\*\*\* and amphibian hearts  
AU Bersohn, Malcolm M.; Vemuri, Ramesh; Schuil, Duane W.; Weiss, Roberta S.;  
Philipson, Kenneth D.  
CS Cardiol. Sect., West Los Angeles Veterans Aff. Med. Cent., Los Angeles,  
CA, 90073, USA  
SO Biochimica et Biophysica Acta (1991), 1062(1), 19-23  
CODEN: BBACAQ; ISSN: 0006-3002  
DT Journal  
LA English

L2 ANSWER 77 OF 77 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1990:134614 CAPLUS  
DN 112:134614  
TI Effect of Quin-2 on calcium-45 ion uptake mediated by sodium/calcium  
exchange and calcium-45 ion efflux in rat brain synaptosomes: a  
requirement for [calcium]<sub>i</sub>  
AU Blanco, P.; Martinez-Serrano, A.; Bogonez, E.; Satrustegui, J.  
CS Cent. Biol. Mol., Univ. Auton. Madrid, Madrid, Spain  
SO Cell Calcium (1990), 11(1), 25-33  
CODEN: CECADV; ISSN: 0143-4160  
DT Journal  
LA English  
STN INTERNATIONAL LOGOFF AT 17:14:10 ON 16 SEP 2003